

Christian Schäfer

List of Publications by Year in descending order

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57
papers

3,636
citations

186265
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43
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57
all docs

57
docs citations

57
times ranked

4985
citing authors

#	ARTICLE	IF	CITATIONS
1	Interlayer exciton valley polarization dynamics in large magnetic fields. Physical Review B, 2022, 105, .	3.2	11
2	Moiré phonons in twisted MoSe ₂ /WSe ₂ heterobilayers and their correlation with interlayer excitons. 2D Materials, 2021, 8, 035030.	4.4	29
3	Large-scale Mapping of Moiré Superlattices by Hyperspectral Raman Imaging. Advanced Materials, 2021, 33, e2008333.	21.0	41
4	Large-scale Mapping of Moiré Superlattices by Hyperspectral Raman Imaging (Adv. Mater. 34/2021). Advanced Materials, 2021, 33, 2170267.	21.0	0
5	Ultrafast Charge-Transfer Dynamics in Twisted MoS ₂ /WSe ₂ Heterostructures. ACS Nano, 2021, 15, 14725-14731.	14.6	32
6	Intersubband excitations in ultrathin core-shell nanowires in the one-dimensional quantum limit probed by resonant inelastic light scattering. Physical Review B, 2021, 104, .	3.2	3
7	Low-frequency Raman scattering in WSe ₂ /MoSe ₂ heterobilayers: Evidence for atomic reconstruction. Applied Physics Letters, 2020, 117, .	3.3	30
8	Interlayer Excitons in Transition-Metal Dichalcogenide Heterobilayers. Physica Status Solidi (B): Basic Research, 2019, 256, 1900308.	1.5	15
9	Tuning Spontaneous Emission through Waveguide Cavity Effects in Semiconductor Nanowires. Nano Letters, 2019, 19, 7287-7292.	9.1	3
10	Absence of a giant spin Hall effect in plasma-hydrogenated graphene. Physical Review B, 2019, 99, .	3.2	27
11	Ultralong spin lifetimes in one-dimensional semiconductor nanowires. Applied Physics Letters, 2019, 114, 202101.	3.3	10
12	Ultrafast Transition from Intra- to Interlayer Exciton Phases in a Van Der Waals Heterostructure. , 2019, , .		0
13	Dielectric Engineering of Electronic Correlations in a van der Waals Heterostructure. Nano Letters, 2018, 18, 1402-1409.	9.1	39
14	Momentum-space indirect interlayer excitons in transition-metal dichalcogenide van der Waals heterostructures. Nature Physics, 2018, 14, 801-805.	16.7	229
15	Exciton Diffusion and Halo Effects in Monolayer Semiconductors. Physical Review Letters, 2018, 120, 207401.	7.8	193
16	Zeeman Splitting and Inverted Polarization of Biexciton Emission in Monolayer WS_2 . Physical Review Letters, 2018, 121, 057402.	7.8	70
17	Towards Room-Temperature Single-Photon LEDs by FRET from Metal Nanoparticles to Exfoliated 2D Crystal Overlayers. , 2018, , .		0
18	Optical spectroscopy of interlayer excitons in TMDC heterostructures: exciton dynamics, interactions, and giant valley-selective magnetic splitting. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
19	Magneto-Raman spectroscopy of spin-density excitations in (001)-grown GaAs-AlGaAs quantum wells in the regime of the persistent spin helix. , 2018, , .		0
20	Excitonic linewidth and coherence lifetime in monolayer transition metal dichalcogenides. Proceedings of SPIE, 2017, , .	0.8	0
21	Direct Observation of Ultrafast Exciton Formation in a Monolayer of WSe ₂ . Nano Letters, 2017, 17, 1455-1460.	9.1	171
22	Spectral focusing of broadband silver electroluminescence in nanoscopic FRET-LEDs. Nature Nanotechnology, 2017, 12, 637-641.	31.5	18
23	Interlayer exciton dynamics in a dichalcogenide monolayer heterostructure. 2D Materials, 2017, 4, 025112.	4.4	146
24	Coulomb engineering of the bandgap and excitons in two-dimensional materials. Nature Communications, 2017, 8, 15251.	12.8	526
25	Valley dynamics of excitons in monolayer dichalcogenides. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700131.	2.4	19
26	Characterization of highly crystalline lead iodide nanosheets prepared by room-temperature solution processing. Nanotechnology, 2017, 28, 455703.	2.6	45
27	Highly Localized Strain in a MoS ₂ /Au Heterostructure Revealed by Tip-Enhanced Raman Spectroscopy. Nano Letters, 2017, 17, 6027-6033.	9.1	91
28	Direct Observation of the Band Gap Transition in Atomically Thin ReS ₂ . Nano Letters, 2017, 17, 5187-5192.	9.1	65
29	Giant magnetic splitting inducing near-unity valley polarization in van der Waals heterostructures. Nature Communications, 2017, 8, 1551.	12.8	105
30	Polarized surface-enhanced Raman spectroscopy of suspended carbon nanotubes by Pt-Re nanoantennas. Physical Review B, 2017, 96, .	3.2	4
31	Neutral and charged inter-valley biexcitons in monolayer MoSe ₂ . Nature Communications, 2017, 8, 15552.	12.8	159
32	Rotation of polarized light emission from monolayer WS ₂ induced by high magnetic fields. , 2017, , .		0
33	Trion valley coherence in monolayer semiconductors. 2D Materials, 2017, 4, 025105.	4.4	34
34	Trion Valley Coherence in Transition Metal Dichalcogenides. , 2017, , .		0
35	Observation of anisotropic interlayer Raman modes in few-layer ReS ₂ . Physica Status Solidi - Rapid Research Letters, 2016, 10, 185-189.	2.4	48
36	Magnetic-Field-Induced Rotation of Polarized Light Emission from Monolayer WS_2 . Physical Review Letters, 2016, 117, 077402.	7.8	76

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37	Excitonic Valley Effects in Monolayer WS ₂ under High Magnetic Fields. Nano Letters, 2016, 16, 7899-7904.	9.1	114
38	Coherent and Incoherent Coupling Dynamics between Neutral and Charged Excitons in Monolayer MoSe ₂ . Nano Letters, 2016, 16, 5109-5113.	9.1	78
39	Trion fine structure and coupled spin-valley dynamics in monolayer tungsten disulfide. Nature Communications, 2016, 7, 12715.	12.8	239
40	Excitonic linewidth and coherence lifetime in monolayer transition metal dichalcogenides. Nature Communications, 2016, 7, 13279.	12.8	360
41	Enhanced spin-orbit coupling in core/shell nanowires. Nature Communications, 2016, 7, 12413.	12.8	34
42	Identification of excitons, trions and biexcitons in single-layer WS ₂ . Physica Status Solidi - Rapid Research Letters, 2015, 9, 457-461.	2.4	282
43	Tailored nanoantennas for directional Raman studies of individual carbon nanotubes. Physical Review B, 2015, 91, .	3.2	6
44	Control of biaxial strain in single-layer molybdenite using local thermal expansion of the substrate. 2D Materials, 2015, 2, 015006.	4.4	149
45	Time-resolved spectroscopy of coupled spin-valley-dynamics in monolayer transition metal dichalcogenides at low temperatures. , 2015, , .		0
46	Long exciton lifetimes in stacking-fault-free wurtzite GaAs nanowires. Applied Physics Letters, 2014, 105, 222109.	3.3	24
47	Weak localization and Raman study of anisotropically etched graphene antidots. Applied Physics Letters, 2013, 103, 143111.	3.3	29
48	Frequency Shift in Graphene-Enhanced Raman Signal of Molecules. ChemPhysChem, 2012, 13, 4271-4275.	2.1	11
49	Anisotropic spin dephasing in a (110)-grown high-mobility GaAs/AlGaAs quantum well measured by resonant spin amplification technique. , 2011, , .		1
50	Inelastic light scattering of hole spin excitations in p-modulation-doped GaAs-AlGaAs single quantum wells. , 2011, , .		0
51	Scanning Raman spectroscopy of nanostructured graphene: doping due to presence of edges. Proceedings of SPIE, 2011, , .	0.8	0
52	Spin Dynamics in High-Mobility Two-Dimensional Electron Systems. Advances in Solid State Physics, 2009, , 143-155.	0.8	11
53	High spin polarization of optically-oriented trions in p-doped GaAs-AlGaAs quantum wells. AIP Conference Proceedings, 2007, , .	0.4	0
54	Confinement Effects on Optical Phonons in Polar Tetrapod Nanocrystals Detected by Resonant Inelastic Light Scattering. Nano Letters, 2006, 6, 478-482.	9.1	35

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55	Single-particle-like states in few-electron quantum dots. Physical Review B, 2000, 61, 15600-15602.	3.2	18
56	Raman spectroscopy of quantum wires and dots: magnetoplasmons and edge-spin-density modes. Physica E: Low-Dimensional Systems and Nanostructures, 1998, 3, 121-128.	2.7	6
57	Quantum Wires: Interacting Quantum Liquids. , 0, , 121-143.		0